Approved For Release 2003/11/19 : CIA-RDP63-00313A000500060104-6

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	5 April 1963
	TOWARDEN ME . The Meson's
	SUBJECT * Status - OKCAPI Pagine Performance Separatement Program
25X1D	1. Final engine performance data based upon high Mach and altitude calibration of development engine FI-116 is now available. This test data reflects the performance attainable with the next delivery engine no. 219 and up as provided by incorporation of the gas generator performance improvement package into the presently existing NN afternames configured engine. Estimates of this performance data forecast in Eurosper 1962 are identified so Table III.
	3. Final test data shows that maximum evallable thrust meets the specification, that fuel consumption at maximum specified thrust is worse than specification, and that fuel consumption at thrust levels below 9h to 96% of maximum is better than specification.
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	which this not forecast this high a threat. Specific fuel communities at the same flight condition but at the maximum throat level forecast in Table III is 12.7% better than Table III estimates and 8.5% better than the specification. Generally, specific fuel communities
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is better them specification at thrust levels below %% of the new maximum level available cited in paragraph).as specific fuel communities is morse than specification at thrust levels above this 96% point.

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continuous which did not forecast this high a threat. Specific fuel consemption at the same flight condition but at the maximum threat forecast in Table III is 1.35 weres then Table III estimates and 1.35 weres then Table III estimates and 1.35 weres then Table III estimates and 1.35 weres then the specification. Occarally, specific fuel consemption meets the specification at thrust levels below 765 of the new maximum level smallable cited in paragraph 3.5; specific fuel consemption is weres then specification at thrust levels above this 555 point.

A. Development work at Fruit & Whitney is continuing in the area of further improvement in fuel communities.

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(S) -7:	ATLISTON
(NSA-17)	

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Attackment:
As stated
DD/OS _____rel
1-DD/R w/att
2-AD/OSA w/att
3-D/T w/att

5-DD/OSA w/att 6-DD/OSA w/att 7-TAPS/OSA w/att w/att 8-SB/OSA w/att 9-C/FS/OSA w/att

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Attacleses :	1

- 1. A brief check of the climb and croise performance of the 1-17 already at the original full fuel weight of 117,000 pounds and with the original specification engines when compared with the latest PEN engine original specification engines when compared with the latest PEN engine onto neverally very little change in over-all performance.
- clied (normally 15-20 minutes) and during early croise (50-60 minutes) at \$5,000 feet offeets the improvement in \$50 at lower power settings during the later stages of cruise (light and descent (70-50 minutes).
- 3. The above is predicated on the 117,000 posed green weight and the reconstity to mainted maximum altitude during penetration and cruise.
- The program which was checked allows the aircraft to reach \$5,000, 500 miles after leaving the tasker (as 15 minute click from 25,000 feet to \$5,000 feet). This provides a range of 1,160 miles and is proticed on a \$5,000 feet). This provides a range of 1,160 miles and is proticed on a \$5,000 feet). This provides a range of 1,160 miles and is proticed on a \$5,000 feet). This provides a range of 1,160 miles and 15 minute refuelling during which term riles are covered.
 - Suring discussion with Relly Johnson on this matter he flatly stated that we have learned so little about the installation leasts, spilling dress, and inlet distortion up to now that any reserve of the old performance figures based on the new less STC's would be meaningless.
 - 6. A 3 or A percent change in installation losses plus sees added spillage drag would affect our performance spectrum.
 - 7. A reserve of the old weight versus altitude charts made up by localized for Dr. Scoville in November 1962 shows that using the graph based on Table III, the new curve based on latest figures will be equal to or slightly shows the curve titled "SP-237A Perf. Date".
 - In complication I would say that widle it is too early to predict any improvement in range due to the new SPC's, we can definitely may that the new thrust figures have brought our operational attitudes back to the new thrust figures have brought our operational attitudes back to there they were originally, provided the aircraft has not grown too much in weight. The actual weight of the aircraft is next to impossible to ferret out.